

What is claimed is:

1. A method of dispensing a liquid material comprising a blend of fluids of a first composition that normally fractionate upon boiling, said method

5 comprising:

(a) providing a source container having said liquid to be dispensed, said source container holding a liquid phase and a vapor phase;

(b) providing a receiving container;

10 (c) transferring a portion of the liquid material in said source container to said receiving container and leaving a remainder of liquid material in said source container; and

15 (d) transferring to said source container a second material having a second composition different from that of said first composition and which, upon addition to said source container, will maintain the composition of said remainder of liquid material in said source container at substantially the same composition as said first composition.

2. A method of dispensing in accordance with claim 1 wherein said second material added to said source container is a vapor.

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3. A method of dispensing in accordance with claim 1 wherein said second material is a liquid which is flashed at least partially to a vapor.

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4. A method of dispensing in accordance with claim 1 wherein step (c) and step (d) are carried out simultaneously.

5. A method of dispensing in accordance with claim 1 wherein step (c) and step (d) are carried out at different times.

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6. A method of dispensing in accordance with claim 1 wherein step (d) is carried out by transferring a vapor to said source container, said vapor having a composition substantially the same as that of said vapor phase in said source container.

7. A method of dispensing in accordance with claim 6 wherein said transferred vapor of step (d) comes from said receiving container.
- 5 8. A method of dispensing in accordance with claim 6 wherein said transferred vapor of step (d) comes from a supply container.
9. A method of dispensing in accordance with claim 1 wherein prior to step (c), pre-filling said receiving container with a vapor having a
- 10 composition similar to that of a vapor above the liquid in said source container; and
- after step(c), carrying out step (d) by transferring the vapor in said receiving container to said source container.
- 15 10. A method of dispensing in accordance with claim 1 wherein said second material has at least one less component than said blend of fluids.
11. A method of dispensing in accordance with claim 1 wherein step (c) and step (d) are carried out simultaneously at times, and out at different times at
- 20 other times.
12. A method of dispensing in accordance with claim 1 wherein said second material contains only those components that are depleted from the liquid remaining in the source container during step (c).
- 25 13. A method of dispensing a liquid material which includes a blend of fluids that normally fractionate upon boiling, the method comprising the following:
 - (a) providing a closed source container which includes said liquid to be dispensed, said source container holding a liquid phase of a first composition and a vapor phase;
 - 30 (b) transferring a portion of the liquid material in said source container out of said source container and leaving a remainder of liquid material in said source container; and

5. (c) transferring into said source container a second material having a second composition that is different than said first composition and which, after addition to said source container, maintains the composition of said remainder of liquid material in said source container at substantially the same composition as said first composition.

14. A method of dispensing in accordance with claim 13 wherein said second material added to said source container is a vapor.

10 15. A method of dispensing in accordance with claim 13 wherein said second material is a liquid which is flashed to a vapor.

16. A method of dispensing in accordance with claim 13 wherein step (b) and step (c) are carried out simultaneously.

15 17. A method of dispensing in accordance with claim 13 wherein step (c) is carried out after a predetermined amount of liquid is has been transferred.

20 18. A method of dispensing in accordance with claim 13 wherein step (c) is carried out after step (b).

19. A method of dispensing in accordance with claim 13 wherein step (c) is carried out by transferring said portion to a closed receiving container.

25 20. An apparatus for dispensing a liquid material comprising a blend of fluids that normally fractionate upon boiling, said apparatus comprising:

a closed source container which includes said liquid to be dispensed, said source container holding a liquid phase of a first composition and a vapor phase;

30 a supply container which includes a material at a second composition different from said first composition and which second composition, after addition to said source container, is capable of maintaining said first

composition of said liquid material remaining in said source container when some of said liquid has been dispensed from said source container; and

a fluid conduit connecting said supply container to said source container.

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21. The apparatus of claim 20 further comprising a fluid conduit for transferring said liquid to a receiving container and a second fluid conduit for receiving said material of a second composition from said receiving container.